(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 19 May 2005 (19.05.2005)

PCT

(10) International Publication Number WO 2005/044242 A1

(51) International Patent Classification7:

A61K 9/70

(21) International Application Number:

PCT/US2004/035686

(22) International Filing Date: 27 October 2004 (27.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/514,709

27 October 2003 (27.10.2003)

- (71) Applicants (for all designated States except US): DOW CORNING CORPORATION [US/US]; 2200 West Salzburg Road, Midland, MI 48686-0994 (US). GENEN-COR INTERNATIONAL, INC. [US/US]; 925 Page Mill Road, Palo Alto, CA 94304-1013 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BOTT, Richard, R. [US/US]; 3032 Hillside Drive, Burlingame, CA 94010 (US). BRANDSTADT, Kurt, Friedrich [US/US]; 11924 Ayre Lane, Frankenmuth, MI 48734 (US). KOLLAR, Csilla [HU/US]; 5007 Goldenwood Drive, Midland, MI 48640 (US). LANE, Thomas, Howard [US/US]; 3713 Orchard Drive, Midland, MI 48640 (US). LILES, Donald, Taylor [US/US]; 1105 Sterling Drive, Midland, MI 48640 (US). SALDJENO, Mae; 48 Larkspur Avenue, Daly City,

CA 94015 (US). THOMAS, Xavier, Jean-Paul [FR/FR]; 7 bis avenue de Lerida, F-09000 Foix (FR).

- (74) Agents: LAPRAIRIE, David, M. et al.; Howard & Howard Attorneys, PC, 39400 Woodward Avenue, Suite 101, Bloomfield Hills, MI 48304-5151 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PREPARATIONS FOR TOPICAL APPLICATION AND METHODS OF DELIVERING AN ACTIVE AGENT TO A **SUBSTRATE**



(skin surface)

backing layer adhesive layer cushion layer absorbent layer controlled-release composition layer

(57) Abstract: A multi-layer dressing and controlled-release composition for topical application to a substrate include an emulsion and an active agent incorporated into the emulsion. The active agent includes a protein. A method of delivering the active agent to the substrate provides the emulsion and incorporates the active agent into the emulsion for delivery of the active agent to the substrate.